

Since 1951...

AUTHENTIC
ANATOMICAL
REPRODUCTIONS
AND
PATIENT
SIMULATORS

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SKELE-TORSO[®]
on
MI-2 STAND

MANUFACTURED AND
SOLD EXCLUSIVELY BY

Medical Plastics Laboratory, Inc.

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PLASTIC SKELETAL REPRODUCTIONS



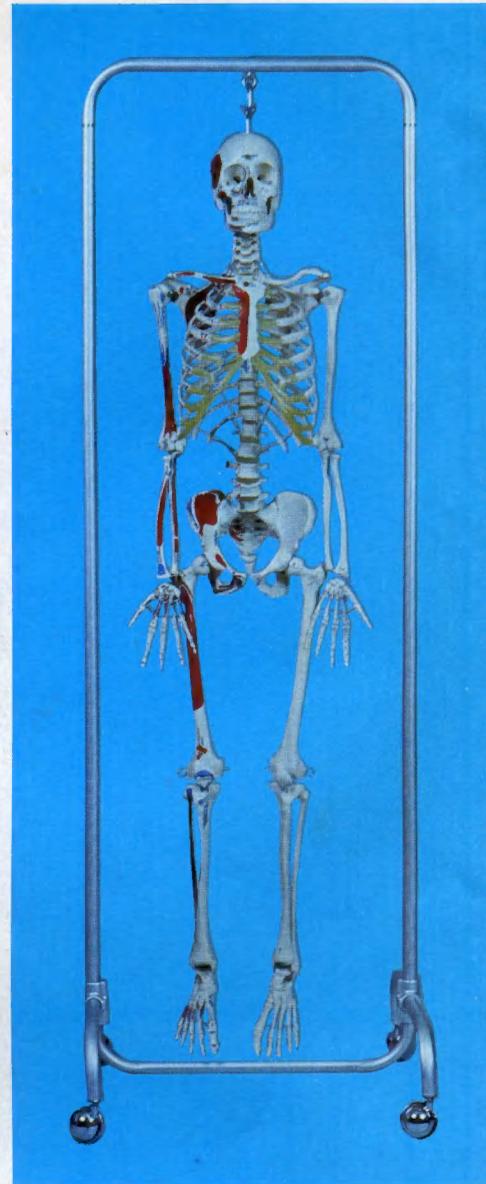
SK-1AP

The SK-1AP (SK-1A Painted) has muscle origins (in red) and insertions (in blue) painted and labeled on BOTH sides, allowing a whole class to gather around the skeleton for demonstrations. Shown with MI-2 Stand.



SK-1A

Cast from 5'2" (157.48 cm) male skeleton, the SK-1A has been articulated with great care to make joint movement as natural as possible. Anatomically exact, the SK-1A can be used with complete confidence for reference and review, classroom study and simplified explanation. Shown with MI-1 Stand.



SK-1AP 1/2 (PAINTED 1/2 SIDE)

Specifically developed as a teaching and reference skeleton, the SK-1AP 1/2 is a completely articulated, life-size skeleton (SK-1A) with muscle origins (in red) and insertions (in blue) hand painted and each muscle labeled on one side. Shown with MI-2 Stand.

OTHER MPL SKELETONS

(Including Human Bone) are listed in our descriptive price list.

When ordering

Ours is a Sole Source item and there is no "Or Equal". When ordering our reproductions, to avoid substitutions or inferior merchandise, be sure to use our catalog number and specify, "Reproduction of 5'2" (157.48 cm) male skeleton made of Special MPL Polyester Plastic, **no substitute accepted**".



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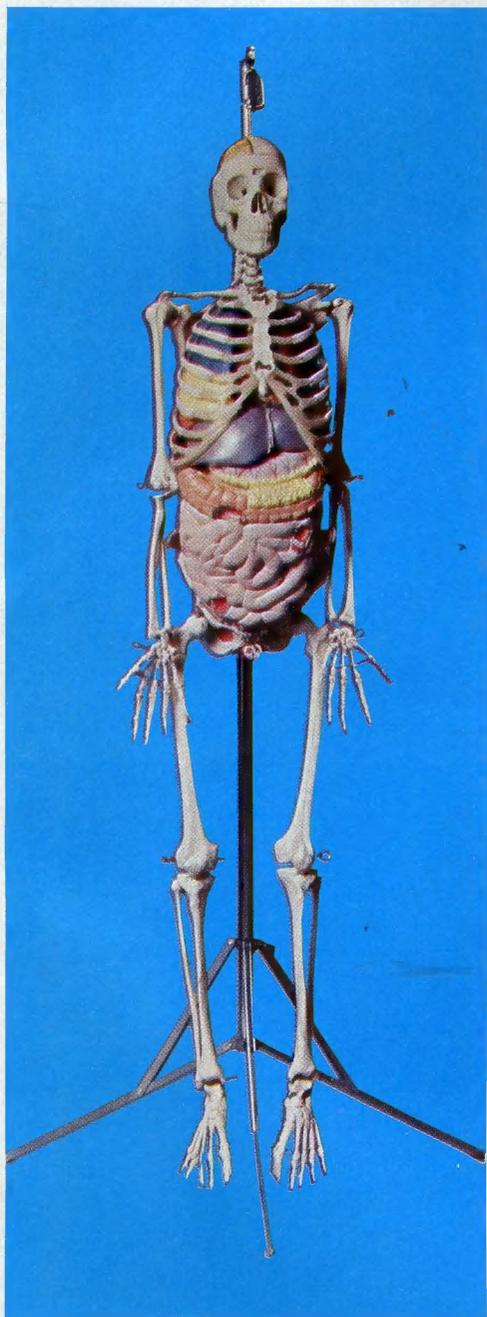
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CUSTOM-MADE BIOLOGY SKELETONS

The durability and authenticity of these plastic reproductions opens new horizons in teaching anatomy. The bones and viscera are cast from human cadaver specimens, thus assuring authenticity and ensuring learning.

The plastic bones are most durable (but in case of accident, can be repaired or replaced) and the soft, lifelike body organs are practically indestructible, thus insuring your investment for a lifetime while teaching the human body "as it is".

Our Special Biology Skeletons eliminate the need for a skeleton AND a Torso (plus miscellaneous other models) at a considerable savings to you.



ECONOMY BIOLOGY SKELETON* (Torso Only)

Same as our SK-1ASB but without arms and legs. We furnish hardware so torso may be upgraded at a later date by adding extremities when budget permits. Comes with MI-9 Stand.



The SK-1ASB* is our SPECIAL BIOLOGY SKELETON.

Starting with the SK-1A, we add these features: Brain Model (SMBrain-1P, pg. 8) to skull and then sagittally section calvarium so either half of brain may be viewed in the skull, or brain may be removed. All three sinuses (maxillary, frontal and sphenoidal) are opened. Skull may be removed from torso. Deluxe Male Pelvis (pg. 11) features added and sagittally sectioned so right hip swings out 45° for viewing internal anatomy of pelvis. Visceral reproductions of lungs, by lobes (SMLung-2P, pg. 15), spleen (SMSpleen-1, pg. 16), pancreas (SMPancreas-1, pg. 16), colon (SMColon-1, pg. 16), small intestine (SMIntestine-1; pg. 16), both kidneys (SMKidneys-1, pg. 16), with right kidney sectioned and stomach sectioned (SMStomach-1, pg. 16). All viscera coded and easily removed from torso.



The SK-1AP $\frac{1}{2}$ BD* is our DELUXE BIOLOGY SKELETON

Same features as the SK-1ASB with these additions: Paint, label and code muscle origins and insertions on one side, add springs in both feet, and hands and put capsules in both hips to show true articulations of the hip (ball and socket joint).

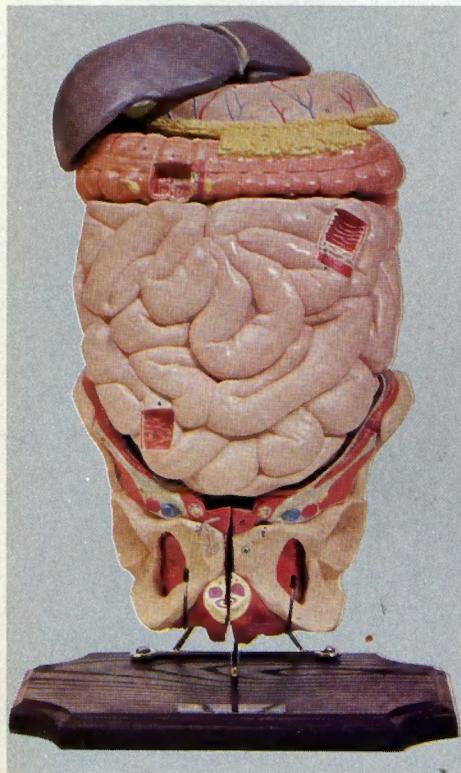


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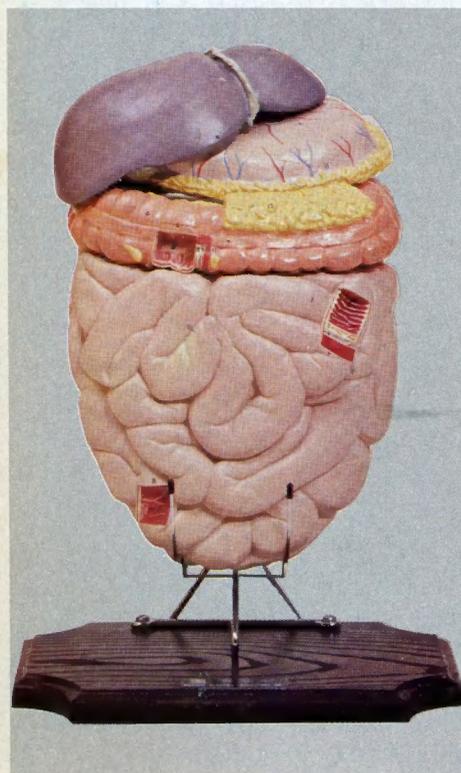
*Comes with Key Code

SPECIAL GENERAL SURGERY SKELETON AND "BELLY MODELS"



DELUXE General Surgeons "BELLY MODEL"*

Plastic reproductions of the following cadaver organs: colon, small intestine, liver and stomach (dissected in half) plus Deluxe Male Pelvis (pg. 11) all fitted in correct anatomical position and mounted on stand. Each organ may be removed as needed.



ECONOMY General Surgeons "BELLY MODEL"*

Same as Deluxe General Surgeons Belly Model, but without Deluxe Male Pelvis.

SPECIAL General Surgeons Skeleton (SK-1AP $\frac{1}{2}$ GS)*

Our SK-1A skeleton reproduction with muscle origins and insertions painted, labeled and coded on one side with the following additions: Deluxe Male Pelvis and reproductions of colon, small intestine, liver and dissected stomach (same as in Deluxe General Surgeons Belly Model). Other viscera can be added if desired.



SK-1AP $\frac{1}{2}$ GS*
SPECIAL General Surgeons Skeleton

*Comes with Key Code

SPECIAL ORTHOPEDIC SKELETON



SMBrPlex-1M



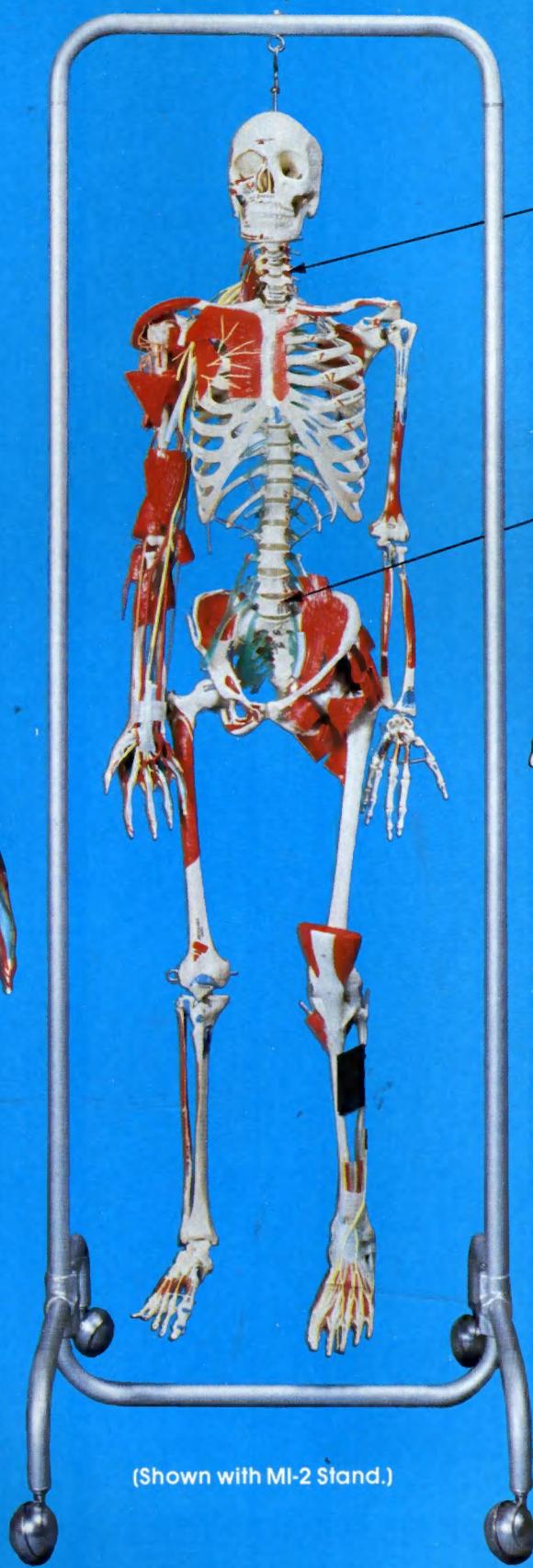
JE-1AMN



SMHA-1ABLMN



JA-1 w/springs



(Shown with MI-2 Stand.)



LAMINECTOMY



HERNIATED DISC



SPV-13DAON



SMHA-1 w/springs



JK-1C3LM



JH-1X



JA-1ALMN

Custom-made Skeleton for the Orthopedic Surgeon. Designed for teaching, patient education, reviewing anatomy and/or surgical procedures. A composite of all the deluxe anatomy specimens shown on this page added to the SK-1AP½ painted

upper left and lower right side). Also used extensively in kinesiology classrooms. Skull, left arm and both legs can be removed. Shown on MI-2 Stand. Comes with Key Code.

A NOTE ABOUT OUR QUALITY

MPL is the only company in the world today that casts the individual bones of the human body, by hand, from molds that are **direct castings** of a human skeleton. We call them AUTHENTIC ANATOMICAL REPRODUCTIONS.

Being an actual reproduction of a 5'2" (157.48 cm) male skeleton, each plastic bone retains the minute detail of the skeleton from which we made our molds and we have duplicated the color, weight, texture and even X-ray opacity of human bone so that only the most trained observer can distinguish them from real bone.

Unlike bone, our plastic reproductions do not age and become fragile or brittle and may be displayed and handled freely without fear of damage and are not offensive to patients or students.

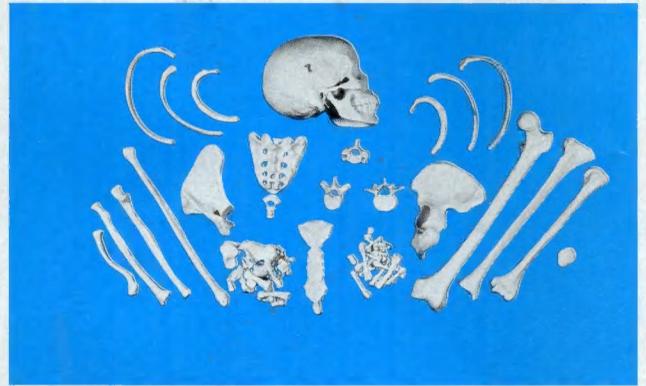
These reproductions are cast of a specially formulated MPL POLYESTER PLASTIC and are not to be confused with phenolic plastic models which are subject to rapid deterioration, crazing, discoloration and brittleness and/or were not actually cast from a human skeleton but from hand-carved models.

An MPL Plastic Reproduction is as anatomically accurate as an actual skeleton, yet infinitely more practical, more desirable and less expensive. Made from our Special MPL Polyester Plastic Formula, it is highly break resistant and can be used indefinitely without damage. Should accidental damage occur, it can be returned to the Lab for repair or replacement of missing or broken parts. **We have cast the same skeleton since 1951!**

Disarticulated SKELETONS & Student BONE BOXES



SK-100 — Economy Student Bone Box. Plastic reproductions of 72 human bones. Includes complete hand and foot, 6 ribs, 1 each cervical, thoracic and lumbar vertebrae plus one of all other bones except skull.



SK-102 — Same as Economy Student Bone Box with addition of complete skull (SO-1) with hinged mandible and removable calvarium.



SK-1/2DX — Same as SK-1/2D but we articulate hand, foot and vertebral column loosely on nylon to show normal position and relationships.

See Price List for Other Skeletons
Replacement Bones Available for Bone Boxes.



SK-1/2D — BASIC STUDENT BONE BOX. Half skeleton disarticulated except skull intact (SO-1). 24 vertebrae, sacrum, coccyx, 12 ribs (one side), clavicle, scapula, sternum, innominate, femur, tibia, fibula, humerus, radius, ulna, patella and bones of one hand and foot. Shown in CC-10 carrying and storage case.

WE ALSO STOCK HUMAN SKELETONS — See Price List.



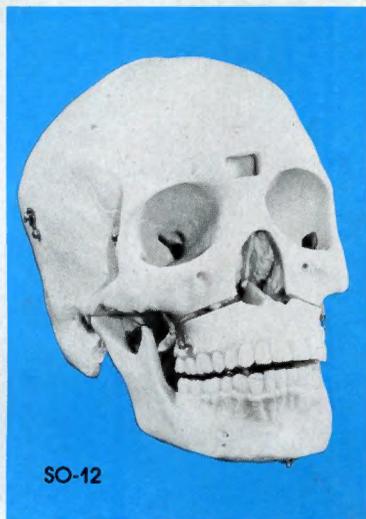
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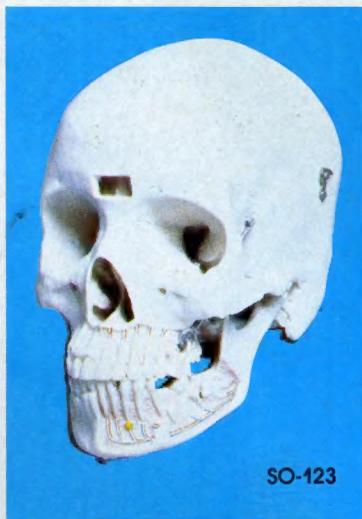
PLASTIC SKULL REPRODUCTIONS



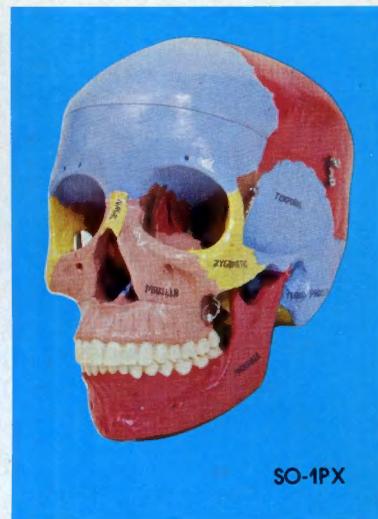
SO-1



SO-12



SO-123



SO-1PX

SO-1 — Basic skull. Same as on our basic skeleton (SK-1A). Mandible hinged and calvarium removable. Both styloids and hamular hooks intact. Perfect dentition. Excellent for students.

SO-12 — Basic skull with windows into frontal and sphenoidal sinuses. Also has cut through antrum and maxillae hinged for full view of maxillary sinuses.

SO-123 — Excellent office aid for the progressive dentist. The SO-12 with special dental pathology in the mouth.

1. Buccal plate removed on right side to expose roots, nerves and blood supply.
2. Impacted third molar resting on distal side of root of the second.
3. Retained root tip.

4. Drifting teeth.
 5. Periapical abscess with carie.
 6. Lingual and palatine tori.
 7. Impacted supernumery in palate.
 8. Periodontal pockets.
 9. Extractions with and without alveolectomy.
 10. Root tip in sinus.
- Recommend on neck and base — Cat. No. SO-1234

SO-1PX — Basic skull with individual bones painted different colors and name on each bone. Simplifies learning names, configuration and position of each bone. Designed with the student and the teacher in mind.

WE ALSO STOCK NATURAL BONE SKULLS



BSO-1A A superior specimen. Finest Quality human bone skull with full compliment of teeth. Mandible hinged and calvarium cut and articulated.



BSO-1AP Dissected Only the finest of the human specimens are dissected by expert Osteologists due to the time involved in performing this tedious task. This photo shows the intricate detail available for studying any portion of the human skull such as the nerves and blood supply to the teeth, all sinuses exposed, double mid-sagittal cut that passes through one cribriform plate on one side and another cut in the same plane



through the other cribriform plate of the ethmoid leaving the cristagalli perpendicular plate of the ethmoid intact, as well as the whole nasal septum. The left temporal bone can be removed and is so sectioned as to completely expose the anatomy of the inner ear. All muscle attachments painted, labeled and coded on one side. Also available, BSO-1A Dissected. Same as above but without painted muscle attachments.



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SKULL REPRODUCTIONS-MEDICAL



SO-124NAPM



SO-14NA



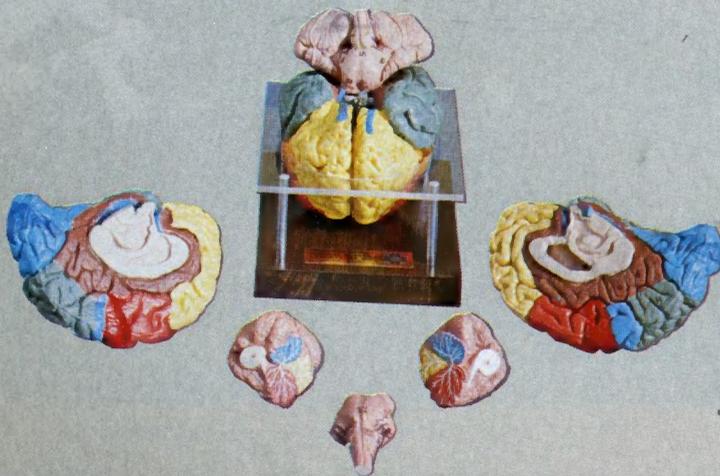
THE CIRCLE OF WILLIS Inside view of skulls shown on this page. Circle of Willis and basilar arteries shown in red vinyl plastic, with nerves color-coded in dark green, light green and yellow.

SO-124NAPM* Our most complete medical skull, used for teaching, learning, review, as well as in the physician's office for patient orientation and explanation of treatment plans and surgical procedures. Also preferred for E.E.N.T. and Plastic Surgeons' offices, as well as teaching head and neck anatomy in schools and hospitals. Maxillary, frontal and sphenoidal sinuses are opened; muscle origins and insertions painted and labeled and coded on right side; nerves in green vinyl plastic on right side; simulated (plastic and fiberglass) muscles of mastication and arteries (including carotid, anterior vertebral artery, Circle of Willis, etc.) on left side, mounted on 7 cervical vertebrae, with discs, on attractive base. Hinged mandible and maxilla plus removable calvarium. Authentic, attractive, practical and durable.

SO-14NA* Developed for use by the neurosurgeon, the SO-14NA shows major nerves of the skull in green applied vinyl on the right side and arteries in red on the left side. Mounted on the seven cervical vertebrae with intervertebral discs. Hinged mandible and removable calvarium, with major nerves and Circle of Willis exposed.

*Comes with Key Code

HUMAN BRAIN REPRODUCTION



SMBrain-1X* This actual reproduction of an adult human brain was designed to enable students of all disciplines and physicians to better understand the three-dimensional anatomy of the human brain. It has also been exceptionally useful in giving patients with neurological disorders a better understanding of their own problems.

Dissected into 5 parts by a leading neurosurgeon, details previously unattainable are now recorded and preserved in durable, flexible plastic with all anatomical landmarks precisely to scale with no distortion of their true topographic location.

*Comes with Key Code

A. A glance at the medial surface of the sagittal section of the cerebral hemispheres reveals such structures as the internal cerebral and thalamostriate veins, the anterior commissure and massa intermedia of the thalamus as well as fine detail of the lamina terminalis and anterior perforated substance.

B. The brain stem section shows the origin and direction of the cranial nerves and the perfectly reproduced floor of the fourth ventricle, quadrigeminal bodies and pons.

C. The cerebellar hemispheres sagittally transected demonstrate the folia of the vermis and the precise anatomical location of the tonsils, flocculus and other surface landmarks of the cerebellar hemispheres.

D. Various motor and sensory cortical areas and cranial nerves are color-coded so concepts of cerebral and brain stem localization are readily grasped and easily recalled.

E. This reproduction has been used by neurologists and neurosurgeons in the teaching of medical students, nurses, dental students and others involved in the brain sciences and has proven to be extremely useful.



SMBrain-1P This inexpensive life size model of an adult brain was carved by an anatomist and is composed of the 2 hemispheres, held in place with elastic for ease in separation and viewing internal anatomy. Cast of foam plastic and hand painted and labeled by our medical artists.

SKULL REPRODUCTIONS-DENTAL

SO-1234NAPM* The ultimate in dental head and neck anatomy. Used by anatomists, students, hospitals, schools and dentists in private practice for teaching, learning, review, lectures, table clinics and simplifying patient explanations. Also used extensively as demonstrative evidence in court for discussion of head, neck and dental problems. Cast from the bones of the head and neck of our basic skeleton, the calvarium is

cut and removable and mandible is hinged. Windows are cut showing frontal and sphenoidal sinuses with cut squarely through antrum of highmore for full view of maxillary sinuses and viewing relationship of roots of teeth to sinuses and explaining sinus problems. Normal articulation of TMJ permits easy demonstration of this important joint and resultant problems arising from cross-bite, prognathic mandible, etc.

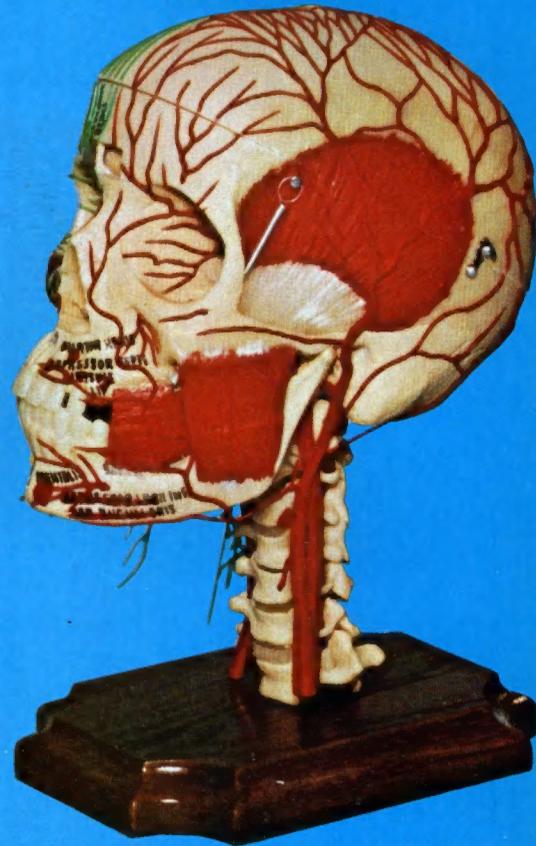
*Comes with Key Code



Right side has muscle origins in red and insertions in blue (both labeled), nerves in green and yellow vinyl plastic, anterior vertebral arteries, seven cervical vertebrae with discs. Buccal plate has been removed to expose roots of teeth and showing blood supply to teeth, impacted third molar resting on distal side of second molar, causing decay at that point, drifting teeth, extruded upper first molar, periodontal pockets, retained root tip, periapical abscess with cavity, root tip in maxillary sinus, etc.

THE CIRCLE OF WILLIS

Inside view of skull shown on this page. Circle of Willis and basilar arteries shown in red vinyl plastic, with nerves color-coded in dark green, light green and yellow.



Left side shows common carotid, internal and external carotid with branches to all parts of the head, brain and face. Muscles of mastication (temporals, buccinator, masseter, internal and exterior pterygoids, mylo hyoid, digastric etc.) are simulated in vinyl plastic with embedded fiberglass and cut for full articulation and demonstration of TMJ problems. Also has other dental pathology and anomalies inside mouth such as, lingual and palantine tori, impacted supernumerary tooth, extractions with and without alveolectomy.

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THE SPINE & ITS COMPONENT PARTS

SPCV-1DAO Deluxe Cervical Vertebrae. Invaluable in demonstrations of trauma in the cervical region caused by sudden shock such as that incurred in rear end collision. Consists of all seven cervical vertebrae, intervertebral discs, occipital bone, vertebral artery, and dura mater. In addition we show laminectomy of the fourth vertebrae and a part of the dura mater is cut away to show nerve roots branching from the spinal cord.

SPTV-1D Deluxe Thoracic Vertebrae. All twelve thoracic vertebrae, articulated with intervertebral discs and dura mater shown in green. Excellent for demonstrating flexion, rotation and nerve impingement.



HERNIATED DISC

SPLV-13DN Deluxe Lumbar Spine. Save time and increase understanding of surgical and post-operative procedures related to a herniated disc (shown in red, between L4 and L5). Also used in explaining low back pain due to severe lordosis. Consists of five lumbar vertebrae, sacrum and coccyx, articulated with vinyl intervertebral discs and dura mater with nerves extended to form sacral plexus and the beginning of the sciatic nerve.

SPV-13DAOFN Our Deluxe Vertebral Column — A composite of the three other deluxe specimens shown on the left, plus SPP-1 (Male) pelvis. Articulated on a flexible rod to demonstrate complete rotation, nerve impingement, lordosis, scoliosis and kyphosis. Femoral and sciatic nerves are added in green vinyl plastic. **Shown with MI-9 Stand**

**NOTE
LAMINECTOMY**



SPLV-1X Spondylolisthesis This unique reproduction is an excellent companion piece for our normal lumbar because it graphically shows five of the common disorders associated with spondylolisthesis. (1) The defect, spondylolysis (2) spondylolisthesis (3) sacralization of L5 and S1 on right side (4) proliferated changes in the articular facets on left side L4 and L5 (5) a thinning of the disc, on left side, between L3 and L4 with asymmetrical articulation of that joint. Consists of L3, L4 and L5, plus sacrum and coccyx.



SPP-1 Male Pelvis From our basic skeleton reproduction. Consists of both innominates, sacrum and coccyx, articulated. Female pelvis also available.



SPP-1XLP1/2 Special female pelvis (see SPP-1 next page) with addition of vertebrae L-3, L-4, L-5 and two half femurs. Muscle origins and insertions painted, labeled and coded on right side with individual ligaments made by hand and permanently affixed to bone in correct anatomical position on left side. Left hip joint is static due to ligamentous attachments; right hip functional.



OB-GYN Pathology Plaque — Companion piece for the Ob-Gyn model. Made of durable plastic and depicts 6 various conditions of the cervix, normal, carcinoma, laceration with infection, acute infection, cervical polyp and linear laceration. Hand painted by our medical artists. This 3-D model is far superior to pictures and drawings for patient education and teaching students.

Ob-Gyn Pelvis To our SPP-1 we have added in soft plastic, realistically hand painted, the important muscles and organs of the female pelvis area such as the ovaries, tubes, uterus, endometrium vagina, bladder, urethra, ureters, anus, rectum, appendix, aorta, inferior vena cava, etc. Mid-sagittal cut permits the pelvis to be opened like a book and discussing structures inside of bladder, vagina, uterus, and rectum, etc. Simplifies teaching anatomy as well as explaining to patients.



SPP-1XLP1/2FE (MOUNTED) — To our SPP-1 (female), we add three vertebrae, two half femurs, major ligaments on left side and paint and label muscles on right side. Pelvis mounted on adjustable ball and socket joint for positioning and fetal head on flexible cable for demonstrating positions, stations, etc. during childbirth.

SPP-1 Basic Pelvic Reproduction (Female) average size. SPP-1 by chain to simplify teaching and demonstrating positions, stations, rotation, etc., associated with childbirth.

SPP-1FE Reproduction of full term fetal skull attached to our



Deluxe Male Pelvis* — Bones (SPP-1 Male) from our skeleton (SK-1A) with soft plastic presentation of vessels, muscles, organs, etc. Sagittally sectioned and hinged in back for viewing internal structures of bladder, urethra, prostate, anus, rectum, etc. (Available with SMPenis-1)

SMPenis-1* — Life-size, hand-carved, anatomically accurate model of the male genitalia. Penis and one testicle sagittally sectioned and dissected to show such detail as corpus cavernosum, deep dorsal vein, Buck's fascia, subcutaneous dorsal vein, urethra, corpus spongiosum, the glans and fossa navicularis, vas deferens, epididymis, internal spermatic artery, pampiniform plexus, vasa efferentia, etc. (Can be attached to Deluxe Male Pelvis and Male Urology Pelvis and removed for study.)



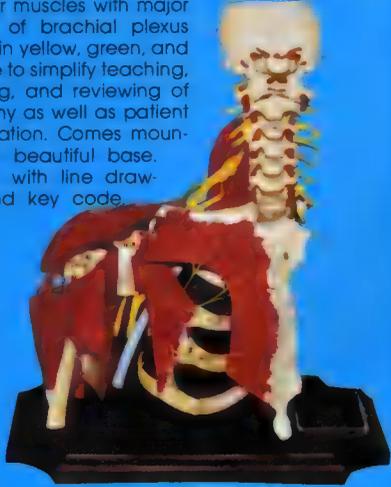
Male Urology Pelvis* — A combination of our Deluxe Male Pelvis and SMKidneys-1 (page 16). (Available with SMPenis-1).

* Comes with Key Code

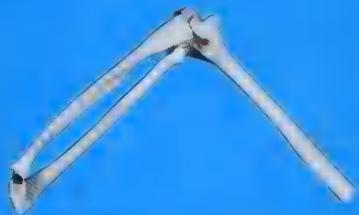
UPPER EXTREMITY

SMBrPlex-1M Deluxe BRACHIAL PLEXUS*

Our deluxe shoulder (see JS-1M) and deluxe cervical (see SPCV-1DAO) with the addition of the following: vertebrae T-1 through T-5 with discs; ribs, first through fifth of right side; axillary vein and artery; anterior, medius, posterior scalenus and serratus anterior muscles with major nerves of brachial plexus shown in yellow, green, and orange to simplify teaching, learning, and reviewing of anatomy as well as patient explanation. Comes mounted on beautiful base. Comes with line drawing and key code.



JS-1 Basic Shoulder Joint Includes upper half of humerus, clavicle and scapula, articulated with stainless steel hardware to show normal movement of the joint.



JE-1 Basic Elbow Joint Includes lower half of humerus and complete radius and ulna, articulated with wire to show normal movement.



JW-1 Basic Wrist Joint

Includes lower half of ulna and radius, with complete hand. Articulated to show normal wrist movement.

SMHA-1 w/ springs The 27 bones of the Hand carefully articulated with small springs and nylon to demonstrate flexion of each joint.



SMArm-1X Deluxe* Our most complete arm, showing all the muscles, ligaments, tendons, nerves, arteries, bursa, etc., as shown on our JS-1M, JE-1AMN and SMHA-1ABLMN. All plastic with radial nerve in orange, median in yellow and ulnar in green. Full range of motion in shoulder and elbow.

*Comes with Key Code

JS-1M Deluxe Shoulder

Joint Enables complete explanation of the normal functions of the shoulder, makes it easy to point out potential trouble areas, show surgical procedures demonstrate injections and ruptured cartilage. Completely articulated the JS-1M includes upper half of humerus, scapula and clavicle. Fourteen muscle endings are attached, with key plate for easy identification.



JE-1AMN Deluxe Elbow Joint*

With muscles of fiberglass and foam plastic, arteries in red and nerves color coded as follows: radial-orange; median-yellow; ulnar-green. Fully functional.



SMHA-1ABLMN DELUXE

HAND* An intricately detailed casting of this complex part of the body showing bones, interosseal muscles, arteries, ligaments, tendons, bursa with nerves color coded as in elbow above. All plastic and fiberglass.

An invaluable aid when studying, teaching or explaining to patients this most complicated and intricate part of the human body.

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LOWER EXTREMITY



JH-IX Deluxe Hip Joint No model can so simply and graphically show the many complicated, yet common, procedures associated with this important joint. Fixing of the pelvic fractures due to childbirth, degenerative arthritis and injection of fluid for lubrication can all be shown. JH-IX includes one innominate, sacrum, coccyx, upper half of femur, articulated with special plastic capsule. Major muscles and ligaments of the hip have been added, or have femoral artery, vein and nerve and sciatic nerve. Fully functional and head of femur may be removed and replaced in capsule. For "Total Hip" Patients.

JK-1031M Deluxe Knee Joint
For fast, simplified explanations of common problems of the knee. Torn semilunar cartilage is shown clearly, making diagnostic and pre-surgical explanations easily understood. All twenty-three major ligaments and muscles of the knee are attached, knied and labeled. Joint includes upper half of tibia and fibula, patella and lower half of femur, and features cruciate and collateral ligaments represented by springs to show normal movement. Available with meniscus if desired (JK-1031M).



JA-1A1MM Our Deluxe Foot and Ankle All the bones of the foot and ankle plus each individual major muscle simulated in plastic and fiberglass, nerves in yellow, and arteries in red vinyl plastic with carters and tendons in clear vinyl plastic and fiberglass. A static joint, unrivaled for teaching, learning or discussing the anatomy of the foot and ankle.



SM-100-IX Deluxe! Our most complete leg is a combination of the 13 on left side of this page (JH-IX, JK-1031M, JA-1A1MM) to simplify teaching and demonstrating the important relationships of one part of the leg to another. Hip and knee joints are articulated to provide full range of motion.



JH-1 Basic Hip Joint Includes innominate and upper half of femur. Joint is articulated with stainless steel hardware to demonstrate normal movement.

JH-1SM Same as basic hip but joint articulated with simulated capsule (plastic) for fast, easy disarticulation.



JK-1 Basic Knee Joint Includes lower half of femur, patella and upper half of tibia and fibula.

JK-1031 Our basic knee, with addition of torn semilunar cartilage, and collateral and cruciate ligaments simulated by springs to demonstrate normal movement of knee joint.



SM-1 Basic Foot All 26 bones articulated with stainless steel wire in normal position (also available with springs - see JA-1 w/springs).

JA-1 w/springs All bones of foot and ankle (including sesamoids) articulated with tiny springs or nylon so bones may be separated and each joint moved.

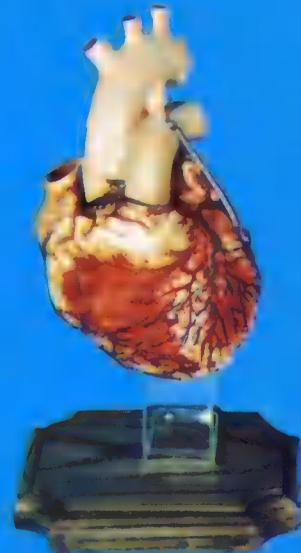
HEART REPRODUCTIONS



SMHE-1X — Cast from same heart as SMHE-1, but of soft plastic and with sagittal cut. Two halves held in normal configuration with pin, but easily separated for viewing internal structures. Not recommended for physician's office. Key code furnished.



SMHE-1 — Cast of X-ray opaque rigid plastic from heart of 21 year old male, weight approximately 160 lbs. Sectioned into 4 parts and hinged to provide access to all areas of the heart. Excellent aid for patient orientation and explanation. Mounted on attractive base. Carrying case available. See CC-9 in price list.



HEART MODELS

SMHE-2 — Carved by our artists, this is a twice life-sized model with 4 windows into the atria and ventricles. Expertly painted with 61 coded structures. Instructional guide furnished. Excellent for classroom. Carrying case available. See CC-16 in price list.



The DON JAKE SAUNDERS HEART MODEL

SMHE-3 — The DON JAKE SAUNDERS Heart Model is an approximate 3 times life-sized model of the human heart sculpted by our world renowned medical artist, Mr. Don Jake Saunders (1921-1976) and is unexcelled for classroom teaching. It shows in exquisite detail the internal structures of the atria and ventricles and lifelike contrast of the tabeculations of the left and right atrial and ventricular endocardial surfaces. The coronary conduction system, including the SA and AV nodes, the atrioventricular bundle (of His), the left and right bundle branches and the distribution of the subendocardial Purkinje fiber network is demonstrated. The coronary circulation is shown in realistic detail. Structures intimately associated with the heart that are shown include: the great vessels (both arterial and venous), descending aorta, esophagus, trachea and bronchi, portions of the lymphatic system including thoracic duct and the vagus and sympathetic nerves. Height 17" on revolving mahogany-colored base. All important structures (108) permanently identified and instructional guide furnished. This is the ultimate in heart models! Nothing comparable. Customized carrying case available. See CC-15 in price list.



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Cast by segments and skillfully painted by our artists, with arteries in red, veins in blue, bronchi in black and lumen in yellow. Each segment is numbered to correspond to the key plate on the stand for ready review of anatomy and teaching students. The individual segments are held in their normal anatomical position with durable elastic so the anatomy of each segment (or lobe) may be separated if desired. As an example, the veins (painted blue) in the intersegmental septa are raised on one segment and the depression of the same vein is shown on the opposite segment permitting the study of the veins as they furnish drainage for both segments. The KASSAY-LANKENAU Lung Reproduction is unexcelled for teaching, learning, staff conferences, visualization and localization of lesions and to assist the Doctor in explaining diagnosis and surgical resection of segments.

Note: This Lung Reproduction is also available cast by lobes only. Cat. Number SMLung-2P

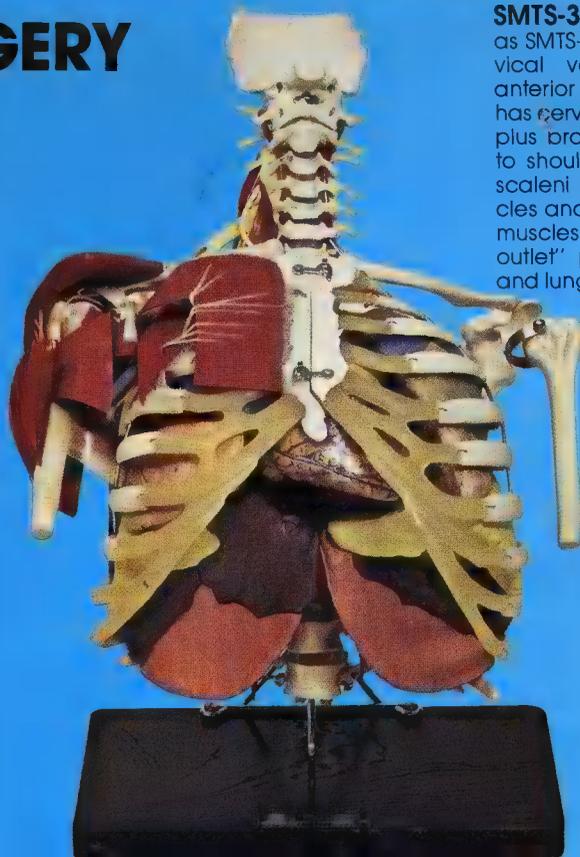
**SMLung-1P
KASSAY-LANKENAU Authentic Lung Reproduction**

An authentic reproduction of a pair of normal inflated human lungs. Available by lobes or segments. Reproduced in life-like soft foam plastic with durable latex cover, the actual anatomy is reproduced with structure (shape of lungs, lobes, segments, secondary lobuli, arteries, veins and bronchi) kept in situ. This shows the intersegmental septum as an uneven, angulated boundary (like a Basalt-Rock formation) and not as a "plane" as represented by previously available models of the lung. These lung reproductions will fit into any of our skeleton reproductions.

FOR THORACIC SURGERY



SMTS-2 — A special "Rib-Cage" reproduction for Thoracic Surgeons. All bones cast from our skeleton. Includes T-1 through T-12 with ribs, costal cartilage and split sternum to simplify removing heart reproduction (SMHE-1X) and reproduction of inflated human lungs (SMLung-1P) cast by segments. (Also available with lobar lungs. See SMTS-1 in price list.)



SMTS-3 — Same reproduction as SMTS-2 but we add seven cervical vertebrae, occiput and anterior vertebral arteries. Also has cervical dura and nerve roots plus brachial plexus and nerves to shoulder area. Includes three scaleni muscles, pectoralis muscles and fourteen major shoulder muscles. Excellent for "thoracic-outlet" patient as well as heart and lung.

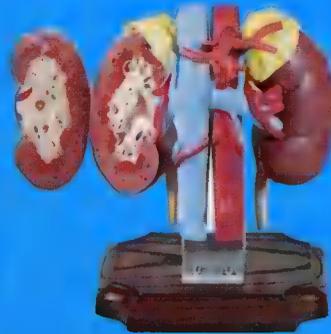
REPRODUCTIONS OF ABDOMINAL VISCERA

These "AUTHENTIC ANATOMICAL REPRODUCTIONS" are further evidence of the expert workmanship of our artists and technicians. Each organ is painstakingly reproduced by direct molds of human cadaver specimen in a soft, life-like, durable, plastic to duplicate as realistically as possible the true texture and resiliency of each individual part of the body. Expertly painted in infinite detail, they leave nothing to the imagination. Their excellence is unsurpassed for teaching, learning

and reviewing anatomy, planning surgical procedures, explaining things to patients and as demonstrative evidence in court. The many advantages over previously available "hand carved" models are obvious.

Each comes mounted on an attractive stand and may be removed and replaced as needed. ALL OUR VISCERAL SPECIMENS, INCLUDING LUNGS AND HEART (SMHE-1X), FIT OUR SKELETONS.

SMStomach-1* . . . Dissected in two halves, front side shows left gastric artery, branches of right gastric and coronary veins, branches of right and left gastric arteries plus a portion of greater and lesser omentum. Back side dissected to show longitudinal muscle fibers circular muscle fibers, oblique muscle fibers plus right and left gastropiploic arteries and veins.

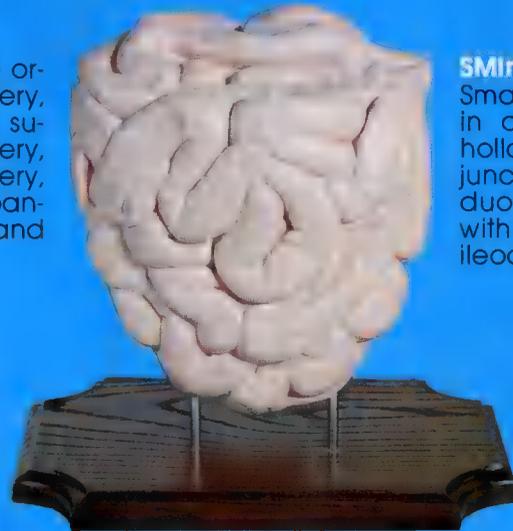


SMKidneys-1* . . . Both kidneys with suprarenal glands attached, the right kidney is dissected, also includes abdominal aorta, renal vessels, inferior vena cava, ureters, testicular and ovarian arteries and veins and the celiac trunk.

SMSpleen-1* . . . Life size reproduction including splenic vein and artery.



SMPancreas-1* Complete organ shows splenic artery, great pancreatic artery, superior pancreatic artery, transverse pancreatic artery, common bile duct, pancreatic duct, portal vein and splenic vein.



SMIntestine-1* Small bowel is cast in one piece (not hollow) and shows junctions with the duodenum and with colon at the ileocecal region.

SMLiver-1* Includes right and left lobes, falciform ligament, ligamentum teres, gall bladder, cystic duct, porta hepatis, common hepatic duct, common bile duct, hepatic artery and portal vein.



SMColon-1* Complete colon, with mesentery, is cast in one piece (not hollow) and includes ascending, transverse and descending colon. Mesentery includes superior and inferior arteries with veins and their principle branches. Shows duodenum on back side of mesentery and ending on front side.

*Key Code Furnished



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A WORD ABOUT . . . PATIENT SIMULATORS

Prior to the introduction of our first PATIENT SIMULATOR in 1963, the student's only choice was to learn tactile skills by practicing on unsophisticated models, dolls or the unsuspecting patient.

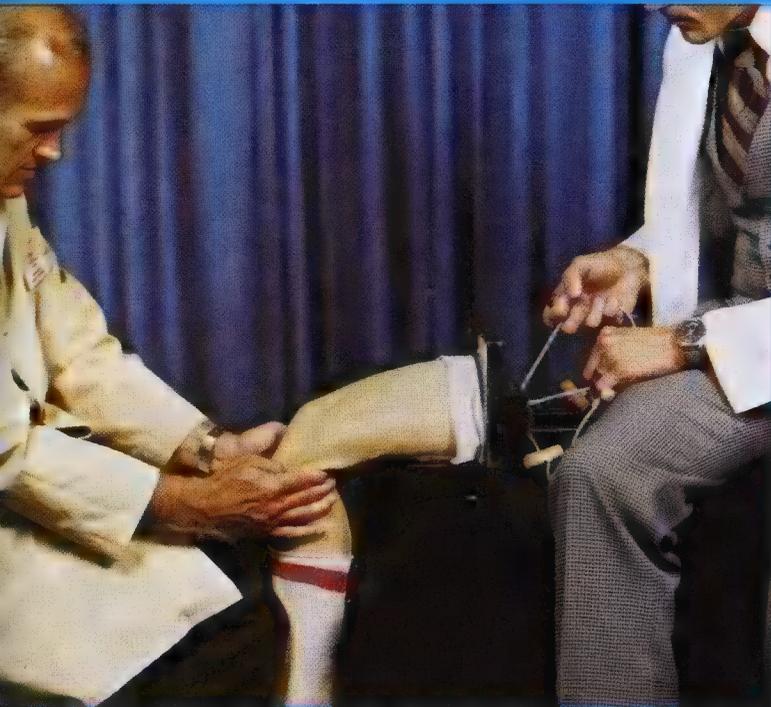
Today the student can practice until proficient, on a lifelike, plastic simulated patient that provides all the true realism of the human body with-

out fear of inflicting serious injury or trauma to the patient during the learning process.

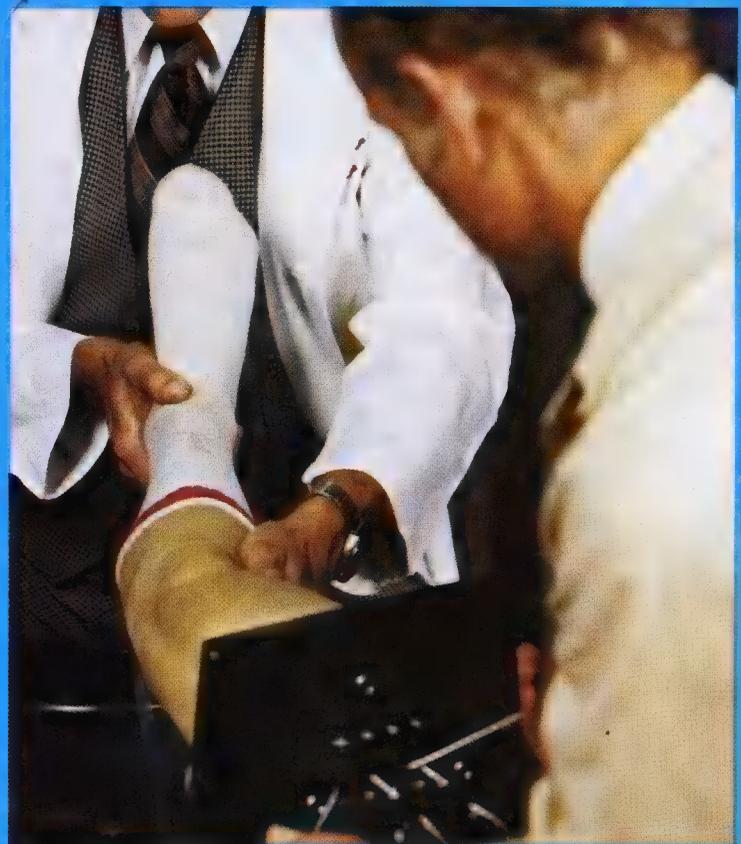
As pioneers in this field, we are proud of our contribution to the revolution in tactile learning and welcome your comments and suggestions as to how we might expand and improve this new learning tool.

LIGGY

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Designed to provide trainers, coaches and physicians an opportunity to learn how to make quick and accurate evaluations of injury to the knee ligaments. LIGGY looks and feels much like a real knee. The student can hold the leg and push left or right, forward or backward while the instructor holds the four strings simulating the medial tibial, lateral fibular, anterior and posterior cruciate ligaments. By proper manipulation of the



strings, the instructor can program the knee to simulate any degree of tear to the individual ligament(s) from 0.5 cm, 1 cm, or more. By learning correct diagnostic procedure and the "feel" of various ligament injuries on LIGGY, better on-field injury evaluation can be made so that those who need immediate surgical attention will receive it. Comes with Instructors Guide, Operators Manual and carrying case.



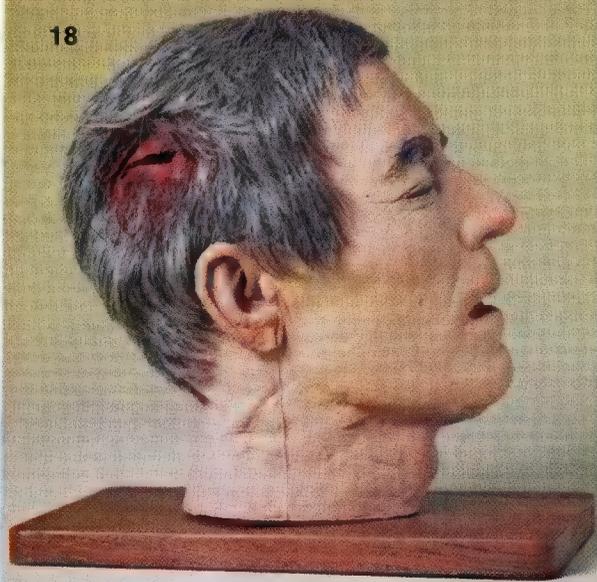
Baby HIPPY**

Copyright ©1978 Medical Plastics Laboratory, Inc.

This simulated patient is used to diagnose congenital dislocation of the hip in infants and represents the pelvis and low extremities of a seven pound newborn. The left hip is normal with normal mechanics and not dislocatable. The right hip however, has a lax hip joint and thus is dislocatable. Downward and lateral pressure of the thumb over the medial thigh with adduction of the leg will dislocate the hip and relocation is accomplished by the opposite maneuver. Instructors Guide furnished.

*Designed and developed by the Medical Illustration Department, Indiana University School of Medicine — Merrill A. Ritter, M.D., Craig G. Gosling, Charles L. Sternecker, G. Paul DeRosa, M.D. and Medical Plastics Laboratory, Inc.

**Designed and developed by the Medical Illustration Department, Indiana University School of Medicine — Richard L. Schreiner, M.D., Craig G. Gosling, Charles L. Sternecker, G. Paul DeRosa, M.D., Merrill A. Ritter, M.D., and Medical Plastics Laboratory, Inc.



More... PATIENT SIMULATORS

Mr. Hurt

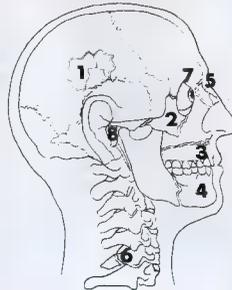
Mr. Hurt was designed to exemplify most of the serious head and neck injuries that a severely traumatized patient is liable to suffer. These are subtle enough to be overlooked unless medical and paramedical personnel receive proper instruction to prevent "second injuries" in the initial roadside and emergency room care of patients.

Mr. HURT consists of a plastic skull with cervical vertebrae fractured in the following locations: Parietal bone, zygomatic arch, mandibular ramus, maxilla, and nasal bones. These bones are maintained in their fractured position with an adhesive. Upon palpation, abnormal bone movement and crepitation identical to those experienced with a clinical fracture are produced. In addition a hemotympanum indicative of a basilar skull fracture is simulated by a purplish-blue membrane inserted deep into the external canal.

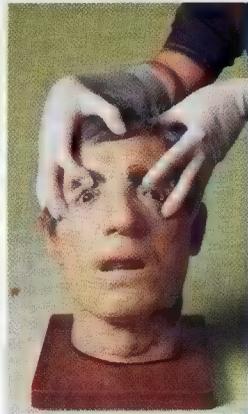
Artificial glass eyes of the same color but different pupillary diameters are mounted in the orbits. With an additional build-up in the right temporal area simulating "boggy-swelling". Covering all is a lifelike, latex facial mask cast from an adult man, with a laceration over the depressed right parietal fracture and another over the left mandibular fracture.

In addition to all of the fractures listed above, the characteristic appearance of a "blow-out" fracture of the orbit and a cervical fracture-dislocation.

Mr. HURT has now been used by neurosurgeons, plastic surgeons, and otolaryngologists to instruct medical students, interns, residents, nurses, emergency room personnel, general physicians, and surgeons. It has facilitated the teaching and dramatized the importance of the initial examination of the head-injured patient.



1. Open depressed skull fracture
2. LeFort III (craniofacial disjunction)
3. LeFort I (transverse fracture; Guerin fracture)
4. Mandibular fracture
5. Nasal fracture
6. Fracture C6 vertebra
7. Unequal pupils
8. Hemotympanum



Ms. Stap

Spinal Tap

MS. STAP is a patient simulator designed to use in teaching and practicing proper techniques for caudal and spinal punctures.

An actual reproduction of the posterior portion (in sitting position) of the human torso, it contains vertebrae, discs, spinal dura, sacrum, coccyx, both pelvic bones plus a very realistic simulation of the interspinous and supra-spinous ligaments. It can be used in sitting positions or on left or right side as preferred by instructor or student. The bone structure provides realistic landmarks of the human anatomy and are readily identifiable by palpation.

Special features are:

1. Simulated spinal fluid is fed continuously through the dura for highly realistic spinal taps
2. Lifelike skin withstands repeated spinal punctures. The simulator can be used over and over again in demonstrating the different approaches.
3. As the needle is inserted, the realistic "pop" indicates when the needle penetrates the dura.

MS. STAP is an excellent patient for training students and residents, in disciplines such as anesthesiology, neurosurgery, ob-gyn, pediatrics, internal medicine, family practice, etc. the correct procedures used in spinal punctures, including diagnostic taps, injection of anesthetics, caudal blocks, lumbar sympathetic blocks and splanchnic blocks.



Designed and developed by the Medical Illustration Department and Craig Gosling of Indiana University School of Medicine, Joseph C. Maroon, M.D., University of Pittsburgh Medical Center, and Medical Plastics Laboratory, Inc.

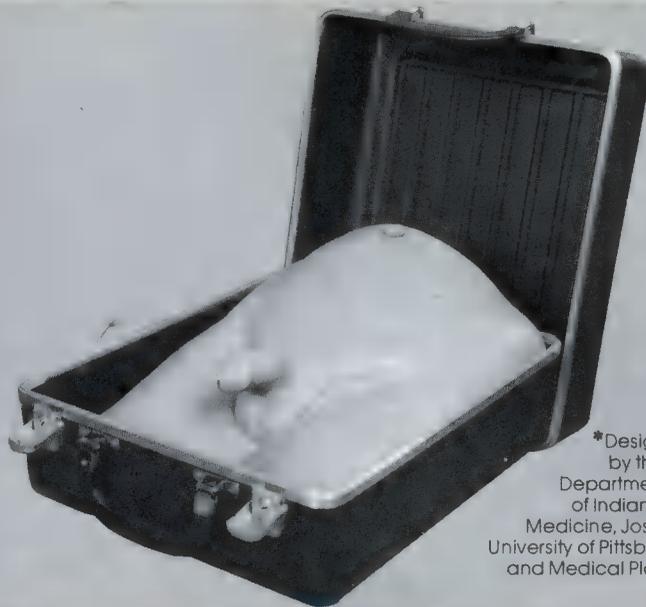
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MR. CATHETER

An actual reproduction of the male pubic area, including abdomen, penis and scrotum. Cast of soft, flesh-colored plastic with all the realism of an actual patient. Mr. Catheter was designed to simulate the catheterization procedure, including the natural resistance felt when the catheter passes through the prostate gland into the bladder drawing simulated urine. Students can practice at their leisure on Mr. Catheter without apprehension or the risk of injuring or infecting a patient. Once they have mastered the technique of inserting the catheter and can do the procedure in a sterile field, it is never forgotten. If practice makes perfect, why not practice on a simulated patient, Mr. Catheter? Urinary catheterization film available — see price list.



*Designed and developed by the Medical Illustration Department and Craig Gosling of Indiana University School of Medicine, Joseph C. Maroon, M.D., University of Pittsburgh Medical Center, and Medical Plastics Laboratory, Inc.



IM HIP

Designed for both teaching anatomy and instruction in technique of intramuscular injections, the two piece IM HIP answers the three major questions of "where", "why", and "how". Fatty tissue and skin portions are molded of soft foam plastic in lifelike colors. The bones, muscles and nerves are accurately cast and color-keyed for easy identification. A student can see at a glance the relationship of bone and muscle to the sciatic nerve, and can quickly understand the necessity for correct placement of the needle. With the two pieces fitted together, you have a simulated patient on which you can practice technique. When the student places the needle in the area selected, you can separate the skin from the muscle area to see exactly where the injection goes in relation to the sciatic nerve.

MS. CATHETER

A companion piece for our Mr. Catheter. This reproduction of the female pubic area with thighs in normal position for catheterization has simulated bladder and large reservoir inside. Cast of soft, flesh-colored plastic and very lifelike in feel and appearance. The labia are easily spread to reveal the clitoris, urethral opening and vagina. The realism provided by Ms. Catheter permits the student to practice passing the catheter until proficient in the optimum sterile procedure necessary to properly catheterize the female patient. Why run the risk of infection when you can practice on Ms. Catheter? Urinary catheterization film available — see price list.



NEW PATIENT SIMULATORS



Baby ARTI* Copyright ©1978 Medical Plastics Laboratory, Inc.

This functional neonatal radial artery puncture simulator consists of a soft arm with bony structures and a radial artery with pulse and blood. Designed to simplify learning the technique of radial artery puncture in blood gas analysis in the newborn. Instructors Guide furnished.

Copyright ©1978 Medical Plastics Laboratory, Inc. Baby TEMPI*

A teaching simulator developed for optimal management of the critically ill newborn that required arterial cannulation for monitoring arterial pressure and oxygen tension, and an umbilical artery cannula cannot be placed or must be removed. The newly developed method of catheter placement in the temporal artery can be performed on Baby TEMPI and permits the trainee to carefully and slowly observe, practice, demonstrate and discuss the proper technique and potential problems that might arise and eliminate the difficulty of this relatively simple procedure. Instructors Guide furnished.



Copyright ©1978 Medical Plastics Laboratory, Inc. Baby UMBI*

The technique of umbilical artery catheterization in the newborn may be readily taught with BABY UMBI. This is a functional simulated infant with umbilical arteries, veins and blood. Instructors Guide furnished.



*Designed and developed by the Medical Illustration Department, Indiana University School of Medicine—Richard L. Schreiner, M.D., Craig G. Gosling, Charles L. Sternecker, G. Paul DeRosa, M.D., Merrill A. Ritter, M.D., and Medical Plastics Laboratory, Inc.

ARTERIAL STICK ARM**

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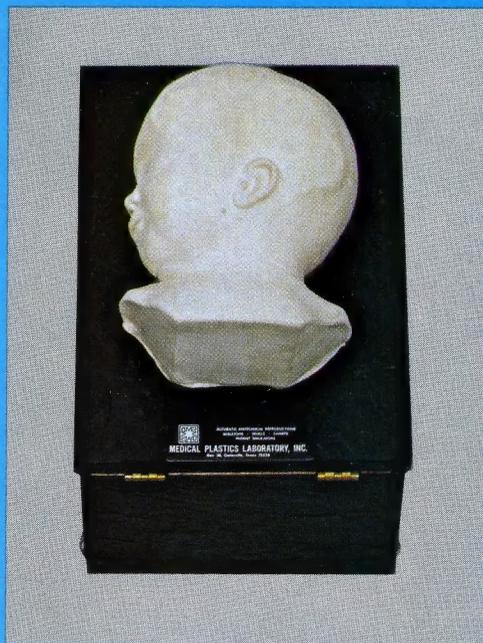
This anatomically accurate arm of a simulated Adult patient was designed to teach concept, techniques and manual dexterity associated with arterial puncture for obtaining blood gasses. The realistic arterial pressure produces lifelike back flow in the syringe and varied pulse rates may be manually produced at the discretion of the instructor. Elbow and wrist may be hyperextended to desired position with puncture sites at antecubital area (brachial artery) and wrist area (radial artery). Complete system in attractive carrying case (CC-14) comes assembled and ready to use. Simple to operate, no complicated mechanism. Comes with Blood Color Concentrate, replacable skin and arteries, easy to change.

**Designed and developed in cooperation with Philip A. von der Heydt, MEd, RRT



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Baby IVY*

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This patient simulator is a functional model consisting of soft simulated infant head with scalp veins with blood on which the technique of intravenous needle placement can be readily taught and practiced. Instructors Guide furnished.

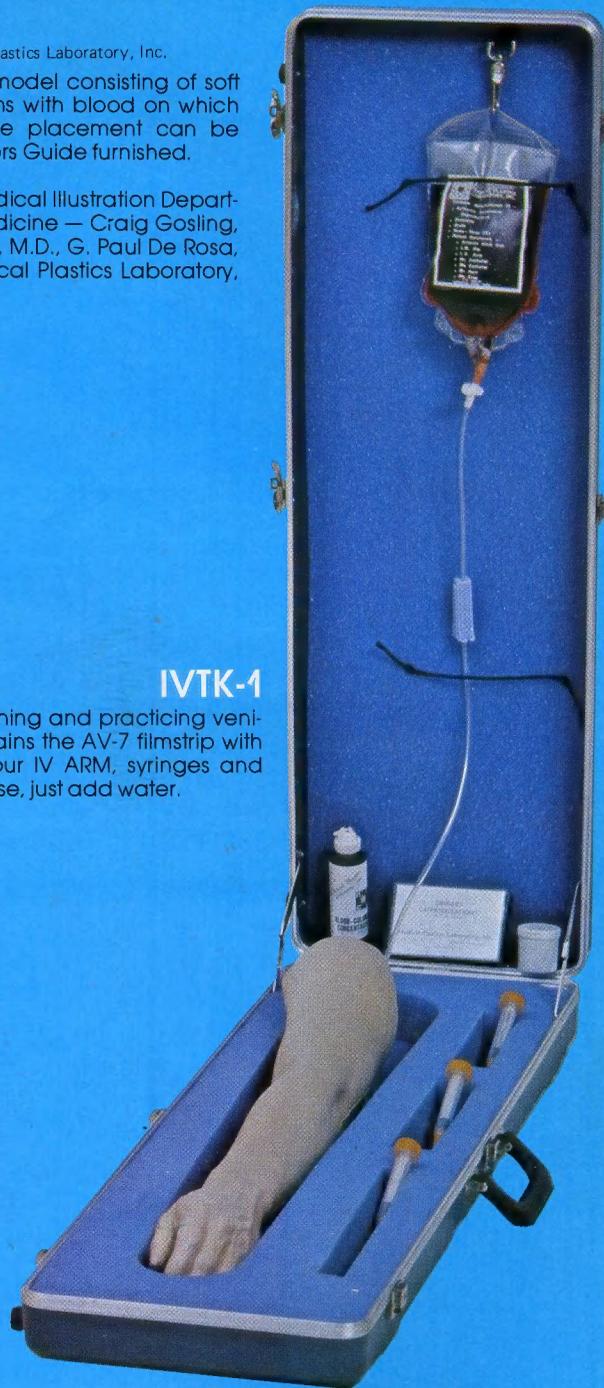
*Designed and developed by the Medical Illustration Department, Indiana University School of Medicine — Craig Gosling, Charles Sternecker, Richard Schreiner, M.D., G. Paul De Rosa, M.D., Merrill A. Ritter, M.D., and Medical Plastics Laboratory, Inc.

IVTK-1

This complete IV Training Kit is unexcelled for teaching and practicing venipuncture. The attractive CC-14 carrying case contains the AV-7 filmstrip with tape cassette, "How to Do Venipuncture", plus our IV ARM, syringes and blood concentrate. Fully assembled and ready to use, just add water.

IV ARM

A direct cast from a human arm in soft foam plastic with self-sealing latex skin for repeated injections in the antecubital area or hand. Very lifelike in feel and appearance. Same arm as used in our IVTK-1. (Also available in black if desired — see price list.)



IV ELBOW

Elbow portion only of our IV ARM for practicing venipuncture in the antecubital area.

IV HAND

Hand and wrist portion of our IV ARM for practicing venipuncture in the hand.

ANOTHER PATIENT SIMULATOR

CHOKING CHARLIE™

PATENT PENDING

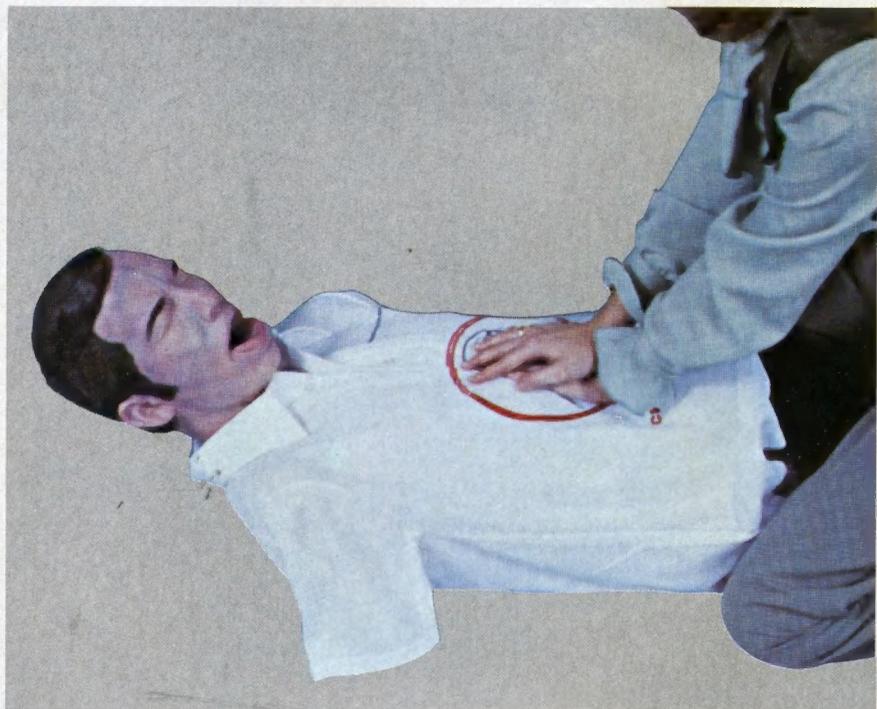
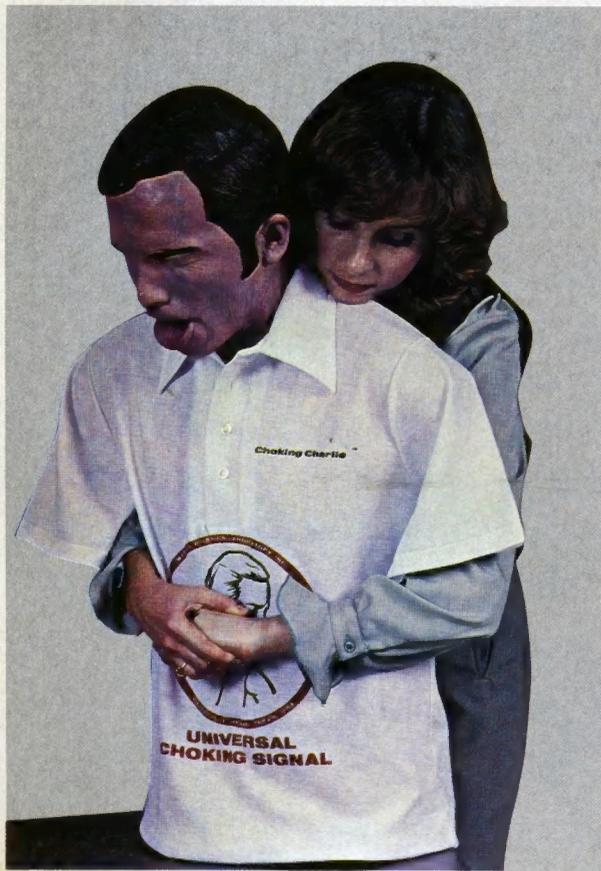
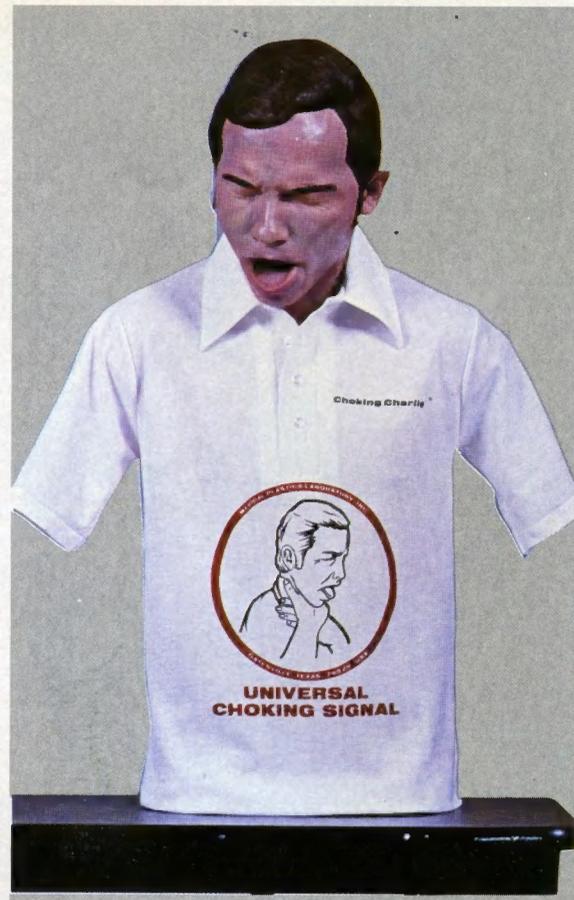
This life-size reproduction of the human torso simulates a choking victim who cannot breathe or speak because of a foreign object (usually food) lodged in the throat and thus only has only four minutes to live!

Even if CHOKING CHARLIE could speak and say, "Help me, I'm choking!", few people would know how to properly perform the new HUG OF LIFE maneuver and expel the bolus.

THE HUG OF LIFE is a simple maneuver that when properly performed, will force the bolus out the mouth and save CHOKING CHARLIE'S life. One should **never practice** the maneuver on **another human** because of the danger of injury to the internal organs while learning, but it is perfectly safe to practice on CHOKING CHARLIE.

Made of durable lifelike plastic, CHOKING CHARLIE comes in an attractive carrying, storage case with a complete teaching program.

Like riding a bicycle or driving a car, once you learn to perform THE HUG OF LIFE on CHOKING CHARLIE, you will never forget and when the occasion arises, you can save the life of a stranger, friend or loved one.



THIS DECAL
ACTUAL SIZE 3" X 3 1/2"
AVAILABLE ON REQUEST



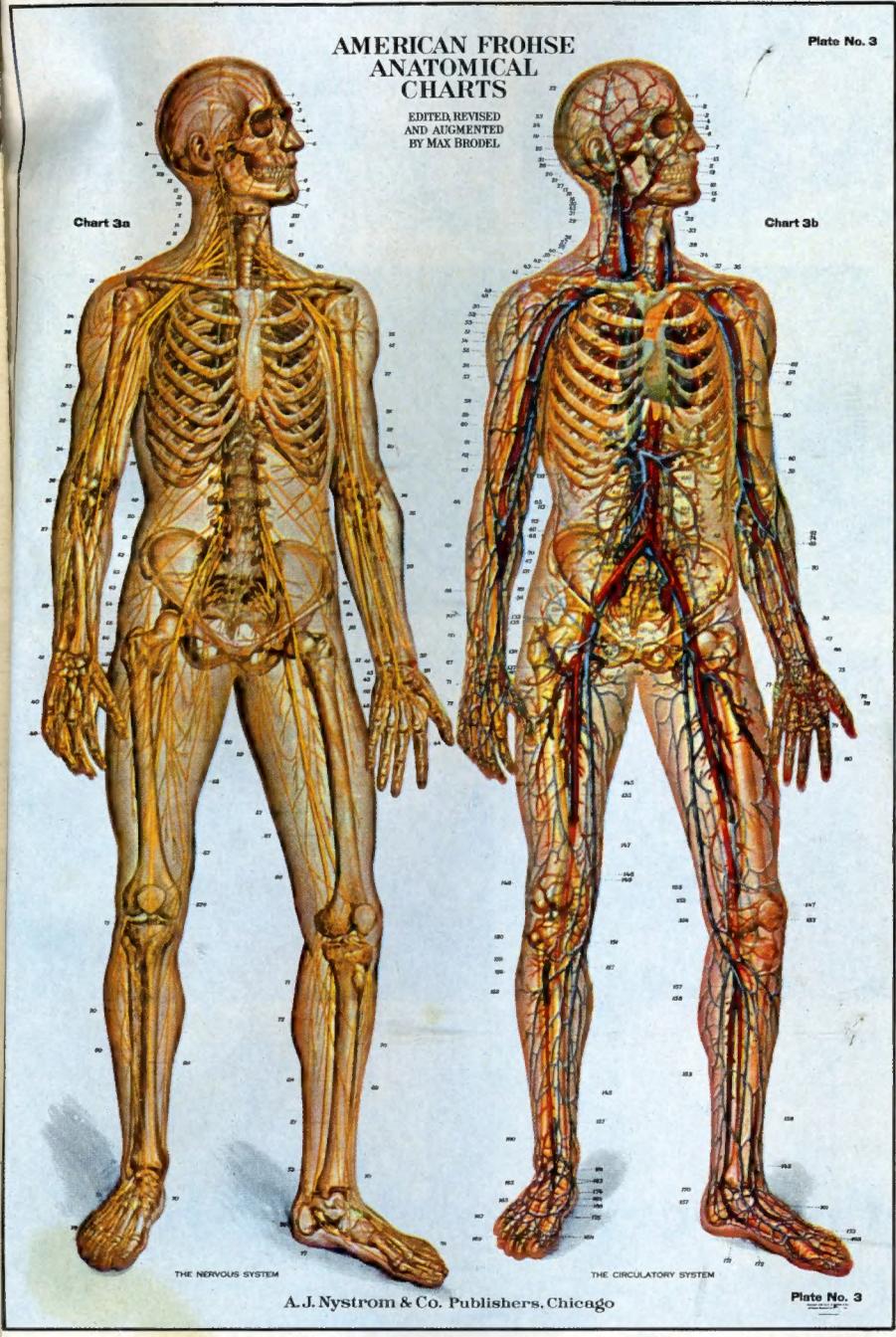
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MI-4 Frohse ANATOMICAL CHARTS

Life size (42" x 64") set of eleven ANATOMICAL CHARTS, Frohse Series. Comes with collapsible heavy-duty tripod stand, steel backboard, heavy-duty spring roller, and manual. Printed so charts can be marked with water-soluble ink, easily removed with damp cloth. Charts include:

- 1. Human skeleton, front and back view
- 2. The muscles, front and back view
- 3. The nervous system and the circulatory system
- 4. Schema of the circulation; the heart, the skin (microscopic sections)
- 5. The ear, the eye
- 6. Viscera of the chest and abdomen
- 7. The head, the mouth, the jaws, the neck
- 8. The digestive system
- 9. The endocrine glands
- 10. The lymphatic system
- 11. Male genito-urinary organs; female genito-urinary organs



CUSTOMIZED CARRYING CASES

Originally designed for use of our representatives, these cases have found acceptance among many of our customers interested in transporting and storing certain of our reproductions. Most are made of heavy gauge, luggage-type molded plastic in richly grained, jet black finish. They resist dents and scuffs, are easily cleaned with damp cloth. Strong double handles, heavily-plated positive latch-locks and distinctive tongue-and-groove aluminum trim add to strength, durability and appearance.

See price list for other carrying cases.



CC-9



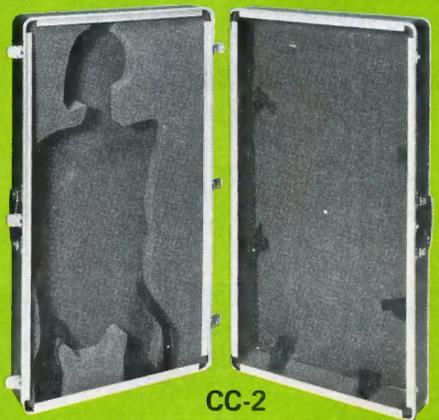
CC-4



CC-11



CC-8



CC-2



MORTUARY SKULL

for use in restorative art class. Cast of rigid, durable polyester plastic.

- CC-9 Skull Case — 8" x 7 1/2" x 10 1/2" Vinyl covered hardboard with snap lock
- CC-4 8" x 13" x 18" for Lung reproductions
- CC-11 8" x 13" x 15" for Mr. Hurt, Mr. Catheter, Deluxe Brachial Plexus
- CC-8 8" x 18" x 13" for Urology Models and IM Hip
- CC-2 Skeleton Case, 10 1/2" x 21" x 39" with cut out foam plastic insert to cradle and protect skeleton

HAND CRAFTED



Perfect Reproductions For Professional Use



MANUFACTURED AND SOLD EXCLUSIVELY BY

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